



PATENT
ATTY. DOCKET NO. WEMP/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lenk
Serial No. : 10/727,809
Filed : December 4, 2003
For : LEVEL MEASURING INSTRUMENT AND PROCEDURE FOR ITS
INSERTING INTO A CONTAINER

Art Unit: Unknown
Examiner: Unknown

Mail Stop IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

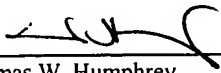
INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO 1449, copies of which are enclosed.

German Patent No. DE 102 06 110 a connection device (14) for an antenna (10) of a filling level radar-type measurement unit, the antenna having an adapter ring (34) fastened to it so that it is linked to antenna plating (28). The design of the adapter ring and plating are such that they can be fastened in a standardized container connection device, e.g. a so-called milk tube fastening. It is used as a connection or mounting device for the antenna of a radar-type filling level measurement unit. The design of the connection device is such that the measurement unit can be used in standard pipe fastenings. At the same time antenna operation is unaffected and changes to its design are not required.

German Patent No. DE 41 18 715 is an arrangement for mounting an electrically insulated metal probe electrode in a housing aperture contains a metal rod electrode (3), a metal protective electrode (4) and a housing (5), each with a sealing surface in the form of a conical

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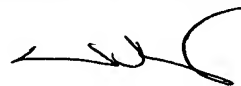
frustum. Sealing cone joints (7,8) are formed between the conical surfaces of the electrodes and of the protective electrode and the housing. The electrodes are insulated with respect to each other and hold an insulating nut (6) in position against the action of a spring (110). It is used, e.g., for a capacitive probe for measuring level in container, and enables measurement and protective electrode to be mounted in housing aperture using single threaded joint.

German Patent No. DE 100 45 235 shows a housing (11) that has lower (13) and upper (21) sections, the upper with a bore larger than that of the lower. An insert fits into the upper bore and has a threaded bar passing through the lower section to connect to the probe (17). A seal (39) links probe and lower housing section with a sliding fit and acts as a pivot between the two. A threaded section (14) of the housing screws into a connection stub on the material container. It is used with capacitive and electromagnetic level sensors used in material storage installations and in the chemical, foodstuffs and oil industries. The free movement between probe and housing enables probes to be installed and removed from containers without the need first to empty the container to avoid damage to probe and connecting leads.

This statement is being filed before the receipt of a first Office action on the merits.

If any petition for extension of time is necessary to accompany this communication, please consider this paper a petition for such an extension of time, and apply the appropriate extension of time fee to Deposit Account 23-3000. If any other charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

Respectfully submitted,



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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. WEMP/03		SERIAL NO. 10/727,809	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Lenk			
				FILING DATE December 4, 2003		GROUP Unknown	

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(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	A.A						
	A.B						
	A.C						
	A.D						
	A.E						
	A.F						
	A.G						
	A.H						
	A.I						
	A.J						
	A.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)		
A.L	DE 100 45 235	28 March 2002	Germany	G01F	23/00	No	
A.M	DE 102 06 110	21 Aug 2003	Germany	G01F	23/28	No	
A.N	DE 41 18 715	10 Dec 1992	Germany	G01D	11/30	No	
A.O							
A.P							
A.Q							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)	
A.R	
A.S	
A.T	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
 Include a copy of this form with next communication to applicant.